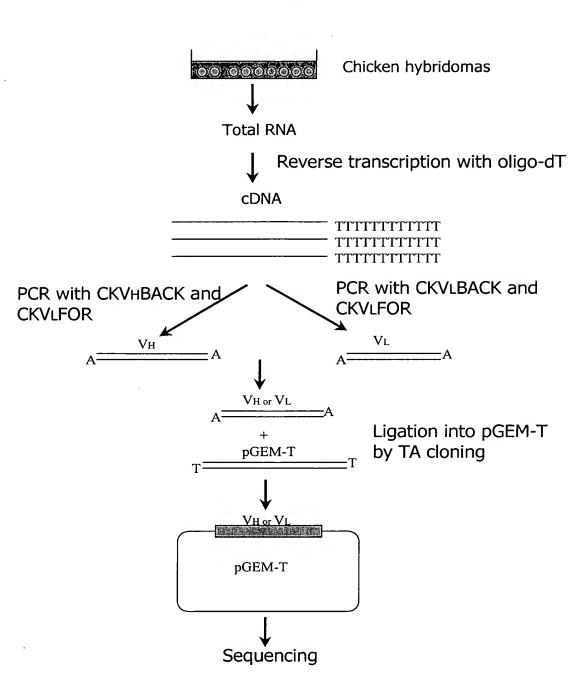
Coccidiosis -Inventor: KIM, et al.

Atty. Ref. No.: 5294-000006



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Fig. 1



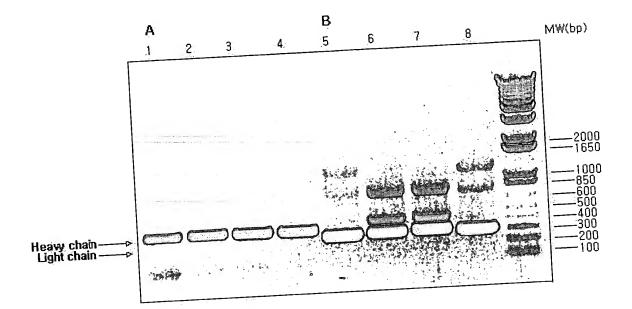
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Fig. 2





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## Fig. 3a

GERML I NE	GCCGTGACGTTGGACGAGTCCGGGGGGGGCGCCTCCAGACGCCCGGAAGAGC	50
2-1HC 5D11HC 13C8HC 8C3HC	G G G G G G G G G G G	50 50 50 50
GERML I NE	GCTCAGCCTCGTCTGCAAGGCCTCCGGGTTCACCTTCAGCAGTTACAACA CDR1	100
2-1HC 5D11HC 13C8HC 8C3HC	CC. TGG	100 100 100 100
GERMLINE 2-1HC 5D11HC 13C8HC 8C3HC	TGGGTTGGGTGCGACAGGCGCCCGGCAAGGGGCTGGAGTTCGTCGCTGGT           . ATG.	150 150 150 150 150
GERML I NE	ATTGACAACACTGGTAGATACACAGGCTACGGGTCGCCGTGAAGGG	197
2-1HC 5D11HC 13C8HC 8C3HC	CDR2 AG CT GTA C. C	197 197 200 197
GERMLINE 2-1HC 5D11HC 13C8HC 8C3HC	CCGTGCCACCATCTCGAGGGACAACGGGCAGAGCACAGTGAGGCTGCAGC	247 247 247 250 247
GERMLINE 2-1HC 5D11HC 13C8HC 8C3HC	VH1_gene           TGAACAACCTCAGGGCTGAGGACACCGGCACCTACTACTGCGCCAAAGCT	297 297 297 297 297
GERML I NE	D_segment JH_gene GCTGGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	341
2-1HC 5D11HC 13C8HC 8C3HC	CDR3 . G C. TATTGTGCTGGTTG G GA	335 338 338 341
GERML I NE	ATGGGGCCACGGACCGAAGTCATCGTCTCCTCC 375	
2-1HC 5D11HC 13C8HC 8C3HC	CKVHFOR 369 372 372 375	

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# Fig. 3b

GERMLINE	GCGCTGACTCAGCCGTCCTCGGTGTCAGCGAACCCGGGAGGAACCGTCAA 50 CKVLBACK	
2~1LC 5D11LC 13C8LC 8C3LC	AAA	
GERMLINE	GATCACCTGC <u>TCCGGGGATAGCAGCTACTATGGC</u> T 85	
2-1LC 5D11LC 13C8LC 8C3LC		
GERML I NE	GGTACCAGCAGAAGGCACCTGGCAGTGCCCCTGTCACTGTGATCTATGAC 135	
2-1LC 5D11LC 13C8LC 8C3LC		
GERML I NE	AACACCAACAGACCCTCGAACATCCCTTCACGATTCTCCGGTTCCAAATC 185 CDR2	
2-1LC 5D11LC 13C8LC 8C3LC	GA. G. G. 185A. G. G. 185A. G. G. C. 185	
GERML I NE	CGGCTCCACAGCCACATTAACCATCACTGGGGTCCGAGCCGACGACAATG 235	
2-1LC 5D11LC	AAATGG.G. 250AG.G.G. AAGG.G. 235G.G.G.G. 235	
13C8LC 8C3LC	AA G G G. 235	
	Vλ 1 gene	
GERML I NE	CTGTCTATTACTGTGCGAGTACAGACAGCAGCAGTACTGCAGGTATA	282
2-1LC 5D11LC 13C8LC 8C3LC	CDR3GCTTCTTA.GTATCC G. A. GA. AT. C. TAC ATCC G. A. GATGATAGTGATTATGTT T. GTGCCTGG. A. T C. ATTTAT. TT	294 282 294 285
	Jλ gene	
GERML I NE	TTTGGGGCC <u>GGGACAACCCTGACCGTCCTÁ</u> 312	
2-1LC	CKVLFOR	
6D12LC 5D11LC		
13C8LC 8C3LC		

TCGTCGCTGGTATTGACAACACTGGTAAGACACAGGCTACGGGTGGGGGGGG
Germline CCCGGCAAGGGGCTGGTGTTGACAACACTGGTAGATACACGGGTCGGCGTGAGGTCGGCGTGAAGGGCCGTGCCATCTCGAGGGACAACGGCCAAGTGAGG 240  CDR2  CDR2  CD-12-G10 ************************************
CCCGCAAGGGGCTGG

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Fig. 3d

Germline	GCGCTGACTCAGCCGTCTCGGTGTCAGCGAACCCGCGAGGAACCGTCAAGATCACCTGCTCCGGGGATAGCAGCTACTATGGCTGGTACCAGCAGAAGGCACCTGGCAGTGCCCCTGTC 105
6D-12-G10	744-7444444444444444444444444444444444
Germline	ACTIGIDATICIATGACAACACCAACAGACCCTCGAACATCCCTTCACGATTCTCCGGTTCCAAATCCGGCTCCACGCACATTAACCATCACTGGGGTCCGAGCCGACGACAATGCTGTC 225
6D-12-G10	6D-12-G10
Germline 6D-12-G10	Germline TATTACTGTGCGAGTACAGAGAGTACTGCAGGTATATTTGGGGCCGGGACAACCCTGACGTCTAGGT 315  CDR3  CD

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## Fig. 4a

Germline	AVTLDESGGGLQTPGRALSLVCKASGFTFS <u>SYNMG</u> WVRQAPGKGLEFVA <u>G</u> CDR1	50
2-1HC 5D11 HC 8C3 HC 13C8 HC	G	50 50 50 50
Germline	<u>IDNT-GRYTGYGSAVK</u> GRAT I SRDNGQSTVRLQLNNLRAEDTGTYYCA <u>KA</u> CDR2	99
2-1 HC 5D11 HC 8C3 HC 13C8 HC	S T. Y. AP	98 99 99 100
Germline	AGXXXXXXTAGS I DAWGHGTEV I VSS 124 CDR3	
2-1 HC 5D11 HC 8C3 HC 13C8 HC	-GGAYCAGCG. D.       122        SYGSWRGST. D.       123         SRCGYDWCS DN.       124         VNSGYPD. AD.       123	

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# Fig. 4b

Germline	ALTQPSSVSANPGGTVKITC <u>SGDSSYYG</u> WYQQKAPGSAPVTVIY	44
2-1 LC 5D11 LC 8C3 LC 13C8 LC	CDR1EGG. AGSYYA L.E.EGRYRSS I.E.EGNNSS	49 44 44 44
Germline	DNTNRPSNIPSRFSGSKSGSTATLTITGVRADDEAVYYCASTDSSST CDR2 CDR3	91
2-1 LC 5D11 LC 8C3 LC 13C8 LC	L. N. QVE. G.F. YVDK. D. D. G. Q.EGNA. NNTY Y. NK. D. P. N. E. F. GAWE. PI W-NK. D E GNA. NTADSD	94 91 91 94
Germline	-AGIFGAGTTLTVL 104	
2-1 LC 5D11 LC 8C3 LC 13C8 LC	L 106 -DP 104 YV 105 YV 108	

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Fig. 5

FRI	CDRI	FR2	CDR2	FR3	CDR3
WV4 and WV2/7/18/23/24	WV14	7V\h	4Λ.	ψV7/12	V12 and V11
ψV24	ψV23	<b>∠</b> ∕∕⁄h	₩V12	ψV7/10/12, ψV2/8/17, and ψV13	ψV13
ψ\4	₩V14	WV6 and WV11	ψV14 and ψV12/13	ψV11	₩V12 and ₩V20
WV4 and WV5/8/14	8/m	8∧₼	#V8	WV8 and WV14	₩V14 and ₩V3

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Fig. 6

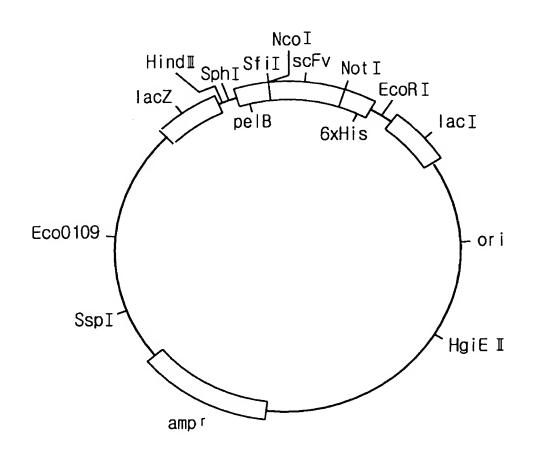
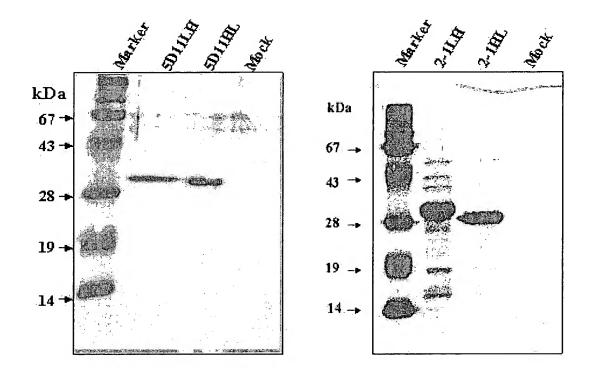


Fig. 7



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Fig. 8

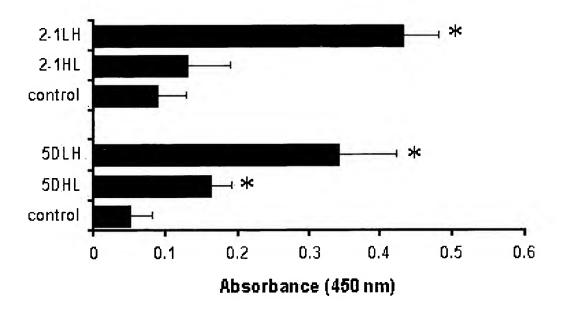


Fig. 9a

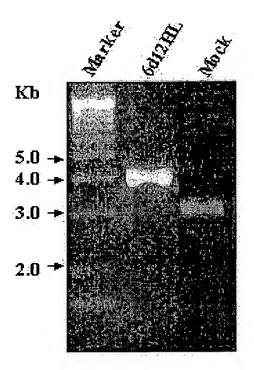


Fig. 9b

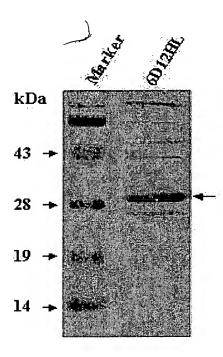
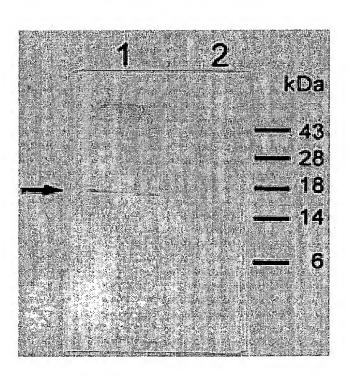


Fig. 10



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Fig. 11

